

**=> IFW: Scan as Doc Code: SRNT <=
Doc Date:**

TC 3700 Inventor Search Program

See attached inventor searches for applications and /or patents to help resolve questions of overlapping subject mater. These searches are provided an an initial examination aid: examiners should perform updated or expanded PALM or EAST inventors searches as appropriate.

Serial Number:

10/527,269

- 1) See attached printout of inventors listed in PALM**

- 2) See attached EAST Inventor Search
Printout shows Inventor search terms**

**PALM INTRANET**Day : Tuesday
Date: 6/5/2007
Time: 14:30:31

Inventor Information for 10/527269

Inventor Name	City	State/Country
<u>NAKANO, YASUAKI</u>	SUNTO-GUN	JAPAN
<u>HIROTA, SHINYA</u>	SUSONO-SHI	JAPAN
<u>TANAKA, TOSHIAKI</u>	NUMAZU-SHI	JAPAN
<u>MIKAMI, AKIRA</u>	SUSONO-SHI	JAPAN

[Appln Info](#)[Contents](#)[Petition Info](#)[Atty/Agent Info](#)[Continuity/Reexam](#)[Foreign E](#)

Search Another: Application#

or Patent#

PCT /

 /

or PG PUBS #

Attorney Docket #

Bar Code #

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)

1	US 7181904 B2	20070227	Exhaust purification device of compression ignition type internal combustion engine	60/285	60/276; 60/295; 60/297; 60/300; 60/303	Yoshida; Kohei et al.
1	US 7153336 B2	20061226	Exhaust gas purifying apparatus, particulate filter and manufacturing method thereof	55/523	264/340; 264/628; 264/630; 264/631; 264/638; 422/177; 55/282.2; 55/282.3; 55/385.3; 55/487; 55/524; 55/DIG.10; 55/DIG.30; 55/DIG.5; 60/297; 60/311	Itoh; Kazuhiro et al.
1	US 7146800 B2	20061212	Exhaust purification device and exhaust purification method of internal combustion engine	60/285	60/274; 60/278; 60/295; 60/297	Toshioka; Shunsuke et al.
1	US 7141088 B2	20061128	Exhaust gas purifying apparatus	55/523	55/385.3; 55/524; 55/DIG.10; 55/DIG.30; 60/311	Nakatani; Koichiro et al.
1	US 7123126 B2	20061017	Method of and computer program product for monitoring person's movements	340/5.2	340/539.11; 340/539.13; 340/572.1; 340/573.4	Tanaka; Toshiaki et al.
1	US 7094619 B2	20060822	Method of fabricating a light emitting device	438/29	257/E25.028; 257/E33.059; 257/E33.066; 29/827; 29/856; 29/858; 438/112; 438/127	Komoto; Satoshi et al.
1	US 7086223	20060808	Exhaust gas purification device of	60/286	60/295; 60/301;	Itoh; Kazuhiro et al.

	B2		internal combustion engine		60/303	
1	US 7086222 B2	20060808	Exhaust gas purification device of internal combustion engine	60/286	60/295; 60/301; 60/303	Itoh; Kazuhiro et al.
1	US 7081431 B2	20060725	NO.sub.x absorbent and absorption reduction-type NO.sub.x purifying catalyst	502/332	502/327; 502/328; 502/333; 502/334; 502/339; 502/349; 502/415; 502/439	Yamashita; Tetsuya et al.
1	US 7073325 B2	20060711	Exhaust emission control method and system	60/295	60/274; 60/280; 60/286; 60/297; 60/303	Nakatani; Koichiro et al.
1	US 7061081 B2	20060613	Resin composition, heat-resistant resin paste and semiconductor device using them and method for manufacture thereof	257/678	257/E21.259; 257/E21.261; 257/E21.576; 257/E23.167; 324/251; 324/378; 324/538; 524/104; 524/107; 524/115; 524/138; 524/173; 524/210; 524/233	Yano; Yasuhiro et al.
1	US 7059113 B2	20060613	Exhaust gas purification device	60/277	60/285; 60/287; 60/296; 60/297; 60/311	Hirota; Shinya et al.
1	US 7040087 B2	20060509	Device for purifying exhaust gas for engine	60/286	60/285; 60/287; 60/295; 60/296; 60/297; 60/303	Nakatani; Koichiro et al.
1	US 7028113	20060411	PC-card data communication	710/62	710/10; 710/2; 710/8	Tanaka; Toshiaki

	B2		apparatus			
1	US 7001442 B2	20060221	Particulate filter for an internal combustion engine and method for producing the same	55/523	264/177.12; 264/209.3; 264/210.1; 264/210.2; 264/210.3; 264/628; 264/630; 264/638; 264/DIG.48; 428/116; 428/118; 55/282.2; 55/282.3; 55/385.3; 55/DIG.10; 55/DIG.30; 55/DIG.5; 60/311	Nakatani; Koichiro et al.
1	US 6999187 B2	20060214	Image forming apparatus, communication system for maintenance of image forming apparatus, maintenance service method of image forming apparatus, and medium storing information to be used in maintenance	358/1.14	358/1.13; 358/1.15; 358/1.16; 358/1.18; 358/406; 358/442; 382/238; 714/46	Tanaka; Toshiaki
1	US 6988360 B2	20060124	Exhaust emission purification device for internal combustion engine	60/286	60/289; 60/292; 60/295; 60/297; 60/303; 60/324	Kimura; Koichi et al.
1	US 6963277 B2	20051108	Method of and system for monitoring behavior of group of persons, and computer program product	340/539.1	340/539.11; 340/539.13; 340/573.1	Imasaki; Naoki et al.
1	US 6959540 B2	20051101	Exhaust gas purification device of internal combustion	60/286	60/295; 60/301; 60/303	Itoh; Kazuhiro et al.

			engine			
1	US 6956008 B2	20051018	Storage-reduction type NOx purifying catalyst	502/326	502/304; 502/327; 502/328; 502/330; 502/332; 502/333; 502/334; 502/339; 502/349; 502/350; 502/351; 502/355; 502/415; 502/439	Takeshima; Shinichi et al.
1	US 6955041 B2	20051018	Exhaust gas purifying apparatus for internal combustion engine	60/275	422/186.03; 422/186.06; 422/186.16; 60/276; 60/285	Takeshima; Shinichi et al.
1	US 6918463 B2	20050719	Muffler for engine	181/237	181/212	Takahashi; Masanori et al.
1	US 6909462 B1	20050621	Photosensor circuit capable of detecting minute light signal in high precision and image sensor utilizing photosensor circuit	348/308	348/E3.018; 348/E3.021	Shinotsuka; Sukeyuki et al.
1	US 6906832 B2	20050614	Image forming apparatus with function of tilt adjustment to laser- beam reflecting mirror	358/480	347/243; 347/244; 358/475; 358/497; 359/204; 359/205; 359/212; 360/75; 382/286; 382/289; 382/295	Furukawa; Kimiaki et al.
1	US 6906002 B2	20050614	Absorption reduction- type NOx purifying catalyst	502/327	502/261; 502/262; 502/263; 502/302; 502/303; 502/304;	Takeshima; Shinichi et al.

					502/308; 502/309; 502/313; 502/328; 502/332; 502/333; 502/334; 502/339; 502/341; 502/349; 502/350; 502/351; 502/355; 502/407; 502/415; 502/439; 502/66; 502/74	
1	US 6901750 B2	20050607	Exhaust emission control apparatus and method for internal combustion engine	60/295	60/285; 60/288; 60/292; 60/297; 60/301	Toshioka; Shunsuke et al.
1	US 6901743 B2	20050607	Exhaust gas purifying method, exhaust gas purifying apparatus, and exhaust gas collecting apparatus of internal combustion engine	60/281	60/274; 60/278; 60/287; 60/300	Asanuma; Takamitsu et al.
1	US 6898930 B2	20050531	Exhaust gas purification device	60/311	60/274; 60/301	Nakatani; Koichiro et al.
1	US 6883310 B2	20050426	Internal combustion engine emission control apparatus and method	60/288	60/274; 60/292	Nakatani; Koichiro et al.
1	US 6877312 B2	20050412	Exhaust emission control system of internal combustion engine	60/288	60/286; 60/295; 60/297; 60/303; 60/324	Nakatani; Koichiro et al.
1	US 6874315 B2	20050405	Exhaust gas purification device	60/285	60/296; 60/297; 60/311; 60/312	Nakatani; Koichiro et al.

1	US 6837043 B2	20050104	Device for purifying the exhaust gas of an internal combustion engine	60/288	60/286; 60/292; 60/295; 60/297	Nakatani; Koichiro et al.
1	US 6834496 B2	20041228	Exhaust gas purifying apparatus for internal combustion engine and control method thereof	60/274	60/286; 60/287; 60/292; 60/295; 60/303; 60/324	Nakatani; Koichiro et al.
1	US 6823665 B2	20041130	Exhaust gas purification device	60/296	60/285; 60/288; 60/297; 60/311	Hirota; Shinya et al.
1	US 6823664 B2	20041130	Exhaust gas purification device	60/295	60/285; 60/286; 60/288; 60/296; 60/324	Nakatani; Koichiro et al.
1	US 6820418 B2	20041123	Exhaust gas purification apparatus	60/297	55/DIG.30; 60/285; 60/311	Nakatani; Koichiro et al.
1	US 6808950 B2	20041026	Semiconductor light-emitting device and method for manufacturing the device	438/29	257/E25.028; 257/E33.059; 257/E33.066; 29/832; 29/841; 29/855; 438/112; 438/123; 438/124; 438/31	Komoto; Satoshi et al.
1	US 6807261 B2	20041019	Digital key telephone set and digital key telephone system	379/156	379/165; 379/166; 379/198	Takahashi; Toshiaki et al.
1	US 6790651 B2	20040914	Hybridization reaction apparatus and hybridization method	435/287.2	435/6; 435/91.1; 435/91.2; 536/22.1; 536/23.1; 536/24.3; 536/24.31; 536/24.32; 536/24.33	Tanaka; Toshiaki et al.
1	US 6789113	20040907	Information input/output system,	709/223	707/10; 709/200;	Tanaka; Toshiaki

	B1		information input/output method, recording medium of recording information transmitting/receiving program, and image forming apparatus		709/203	
1	US 6786041 B2	20040907	Exhaust gas purification method and exhaust gas purification apparatus	60/274	422/177; 423/212; 423/213.2; 423/213.5; 423/215.5; 60/282; 60/297	Itoh; Kazuhiro et al.
1	US 6781944 B1	20040824	Optical information processor with monolithically integrated light emitting device, light receiving devices and optics	369/112.12	257/E31.127; 369/112.08; 369/120; 369/44.12	Tanaka; Toshiaki
1	US 6769245 B2	20040803	Exhaust gas purification method	60/295	60/278; 60/280; 60/286; 60/297; 60/311	Itoh; Kazuhiro et al.
1	US 6731721 B2	20040504	Telephone exchange apparatus	379/45	379/37; 379/50; 379/93.05	Tanaka; Toshiaki et al.
1	US 6725651 B2	20040427	Reducing agent for emission control system, reducing-agent supply device, and emission control system using the reducing agent	60/286	422/172; 60/274; 60/276; 60/295; 60/301	Itoh; Kazuhiro et al.
1	US 6708486 B2	20040323	Exhaust gas purification device of internal combustion engine	60/297	55/DIG.30; 60/286; 60/287; 60/292; 60/295; 60/303; 60/324	Hirota; Shinya et al.
1	US 6697405 B2	20040224	Vertical cavity surface emitting lasers, optical	372/45.01	372/26	Kitatani; Takeshi et al.

			modules and systems			
1	US 6697113 B1	20040224	Solid-state image pick-up device and drive method for same	348/308	250/208.1; 348/281; 348/E3.029	Tanaka; Toshiaki et al.
1	US 6681566 B2	20040127	Exhaust purifying method and apparatus of an internal combustion engine	60/288	60/274; 60/285; 60/296; 60/297	Itoh; Kazuhiro et al.
1	US 6679052 B2	20040120	Emission control apparatus	60/297	60/286; 60/287; 60/288; 60/296; 60/311	Nakatani; Koichiro et al.
1	US 6677614 B1	20040113	Semiconductor light-emitting device and method for manufacturing the device	257/81	257/100; 257/432; 257/433; 257/676; 257/788; 257/89; 257/E25.028; 257/E33.059; 257/E33.066	Komoto; Satoshi et al.
1	US 6672050 B2	20040106	Exhaust gas purification device of an engine	60/284	180/65.2; 180/65.3; 60/278; 60/280; 60/295; 60/297; 903/923; 903/927; 903/941; 903/942	Murata; Hiroki et al.
1	US 6668548 B1	20031230	Exhaust emission control device of internal combustion engine	60/286	60/284; 60/292; 60/324	Asanuma; Takamitsu et al.
1	US 6655133 B2	20031202	Exhaust gas purifier for internal combustion engine	60/296	60/297; 60/311; 60/324	Mikami; Akira et al.
1	US 6644023 B2	20031111	Exhaust emission control device of internal combustion engine	60/297	60/287; 60/296; 60/311	Hirota; Shinya et al.
1	US 6644022	20031111	Exhaust gas purification device of	60/297	60/288; 60/292;	Hirota; Shinya et al.

	B2		internal combustion engine		60/296	
1	US 6634167 B1	20031021	Exhaust temperature raising apparatus and method for internal combustion engine	60/284	60/285; 60/286; 60/289; 60/301	Toshioka; Shunsuke et al.
1	US 6633631 B2	20031014	Digital key telephone system and extension terminal device thereof	379/165	379/1.01; 379/32.01; 379/413.02; 379/93.15	Tanaka; Toshiaki et al.
1	US 6618239 B2	20030909	Key switch and keyboard	361/679	200/344; 200/5A; 200/5R	Takahashi; Kouki et al.
1	US 6611064 B1	20030826	Semiconductor device and method for manufacturing the same	257/787	257/100; 257/433; 257/642; 257/643; 257/738; 257/778; 257/780; 257/781; 257/783; 257/788; 257/E21.505; 257/E23.069; 257/E23.125; 438/106; 438/118; 438/119; 438/126; 438/127; 438/25; 438/26	Kousaka; Takashi et al.
1	US 6594991 B2	20030722	Exhaust purifying method and apparatus of an internal combustion engine	60/296	60/274; 60/286; 60/288; 60/297	Itoh; Kazuhiro et al.
1	US 6588204 B2	20030708	Device for purifying the exhaust gas of an internal combustion engine	60/297	60/287; 60/296	Hirota; Shinya et al.
1	US 6588203 B2	20030708	Exhaust device of internal combustion engine	60/297	181/238; 181/258; 60/288; 60/296	Hirota; Shinya et al.
1	US	20030610	Engine-driven	D15/144		Suga; Koji et

	D475726 S		welding machine			al.
1	US 6568178 B2	20030527	Device for purifying the exhaust gas of an internal combustion engine	60/297	60/286; 60/287; 60/296	Hirota; Shinya et al.
1	US 6546721 B2	20030415	Exhaust gas purification device	60/297	60/278; 60/280; 60/286; 60/295; 60/311	Hirota; Shinya et al.
1	US 6522971 B1	20030218	Information input/output system for offering various services to a user terminal through a communication network	701/209	340/995.1	Tanaka; Toshiaki
1	US 6511961 B1	20030128	Cyclic peptides and medicinal use thereof	514/9	514/14; 514/15; 514/16; 514/17; 530/317; 530/327; 530/328; 530/329	Takahashi; Toshiya et al.
1	US 6510686 B2	20030128	Exhaust gas purifier for internal combustion engine and method for purifying exhaust gas	60/296	60/274; 60/288; 60/297	Kimura; Koichi et al.
1	US 6502391 B1	20030107	Exhaust emission control device of internal combustion engine	60/288	60/295; 60/301	Hirota; Shinya et al.
1	US 6501038 B2	20021231	Key switch and keyboard	200/344		Hayashi; Kazutoshi et al.
1	US 6496576 B2	20021217	Digital key telephone system and extension terminal device thereof	379/156	379/165; 379/207.04; 379/209.01; 379/266.01	Tanaka; Toshiaki et al.
1	US 6482640 B1	20021119	Hybridization device, case, support, and label agent	435/287.2	435/288.3; 435/288.5	Tanaka; Toshiaki et al.
1	US	20021119	Catalyst warming	60/284	422/183;	Hirota; Shinya

	6481200 B1		apparatus of internal combustion engine		60/286; 60/324	et al.
1	US 6459712 B2	20021001	Semiconductor devices	372/45.01	257/E21.09; 257/E33.003; 257/E33.043	Tanaka; Toshiaki et al.
1	US 6456705 B1	20020924	Digital key telephone system and extension terminal device thereof	379/156	370/466; 379/163; 379/165; 379/93.06	Tanaka; Toshiaki et al.
1	US 6440987 B1	20020827	Antipruritic	514/282	546/44; 546/45; 546/46	Nagase; Hiroshi et al.
1	US 6430204 B1	20020806	Semiconductor laser device and optical processing system using the device	372/46.01		Tanaka; Toshiaki
1	US 6426316 B2	20020730	Exhaust emission control catalyst for diesel engines	502/340	502/344; 502/527.13	Tanaka; Toshiaki et al.
1	US 6408157 B1	20020618	Image forming apparatus	399/301	347/116; 399/167; 399/49	Tanaka; Toshiaki et al.
1	US 6408060 B2	20020618	Digital key telephone system and extension terminal device thereof	379/162	379/142.17; 379/164; 379/265.03	Tanaka; Toshiaki et al.
1	US 6404068 B1	20020611	Paste composition, and protective film and semiconductor device both obtained with the same	257/787	257/788; 257/793; 257/E23.119; 257/E23.125; 257/E23.14	Tanaka; Toshiaki et al.
1	US 6400912 B1	20020604	Image forming apparatus with detection of media and setting a threshold for the detector	399/45		Tanaka; Toshiaki et al.
1	US 6385425 B1	20020507	Image forming apparatus and method having a variable conveying mode in an image transfer section	399/299	399/303; 399/401	Tanaka; Toshiaki
1	US 6385417 B1	20020507	Holding structure of image holding member in image forming system	399/164	399/159	Tanaka; Toshiaki et al.

1	US 6381952 B1	20020507	Exhaust temperature raising apparatus and method for internal combustion engine	60/284	60/277; 60/285; 60/286; 60/324	Asanuma; Takamitsu et al.
1	US 6381422 B1	20020430	Image forming apparatus for fine-adjusting a fixation speed of a development material in accordance with temperature control	399/45	399/389; 399/68; 399/69	Tanaka; Toshiaki
1	US 6377671 B2	20020423	Digital key telephone system and extension terminal device thereof	379/156	379/1.01; 379/157; 379/164; 379/32.04; 379/9	Tanaka; Toshiaki et al.
1	US 6377596 B1	20020423	Semiconductor materials, methods for fabricating semiconductor materials, and semiconductor devices	372/45.01	257/52; 257/E21.09; 257/E21.131; 257/E33.003; 257/E33.006; 257/E33.043; 438/29	Tanaka; Toshiaki et al.
1	US 6374076 B1	20020416	Image forming apparatus having relative sheet material speed control	399/396	399/45	Tanaka; Toshiaki
1	US 6373924 B2	20020416	Digital key telephone system and extension terminal device thereof	379/22.01	379/15.01; 379/165; 379/26.02; 379/29.01; 379/9	Tanaka; Toshiaki et al.
1	US 6370871 B1	20020416	Internal combustion engine having lean NOx catalyst	60/286	123/551; 60/278; 60/280	Suzuki; Makoto et al.
1	US 6370869 B1	20020416	Exhaust purification device of an engine	60/276	60/284; 60/285; 60/292	Hirota; Shinya et al.
1	US 6367246 B1	20020409	Exhaust gas purification device for internal combustion engine	60/295	55/283; 55/DIG.30; 60/289; 60/297; 60/301	Hirota; Shinya et al.
1	US 6361579 B1	20020326	Exhaust gas purifier and method for internal combustion	55/523	422/171; 422/174; 422/177;	Itoh; Kazuhiro et al.

			engine		422/178; 55/DIG.10; 55/DIG.30	
1	US 6356572 B1	20020312	Semiconductor light emitting device	372/45.01	257/15	Tanaka; Toshiaki et al.
1	US 6334044 B1	20011225	Image forming apparatus	399/388	399/389; 399/394; 399/396	Wasai; Akihiro et al.
1	US 6330186 B1	20011211	Non-volatile semiconductor memory device having electrically programable memory matrix array	365/185.11	365/185.21; 365/185.22; 365/185.28	Tanaka; Toshiaki
1	US 6328844 B1	20011211	Filmy adhesive for connecting circuits and circuit board	156/330	156/292; 257/E21.514; 29/831; 29/832; 523/458	Watanabe; Itsuo et al.
1	US 6321044 B1	20011120	Image forming apparatus and method	399/49	399/72; 399/74	Tanaka; Toshiaki
1	US 6317147 B1	20011113	Image forming method using registration marks having varying angles	347/116	399/301	Tanaka; Toshiaki
1	US 6316461 B1	20011113	Antipruritic	514/282	546/44; 546/45; 546/46	Nagase; Hiroshi et al.
1	US 6301458 B1	20011009	Image forming apparatus	399/167	399/117	Mori; Tokihiko et al.
1	US 6272097 B1	20010807	Optical head and apparatus for recording and reproducing optical information through the use of the optical head	369/112.08	369/112.09; 369/112.2; 369/120; 369/122	Nakao; Takeshi et al.
1	US 6263061 B1	20010717	Digital button telephone system and extension terminal for the same	379/156	379/100.15; 379/157; 379/165; 379/210.01; 379/212.01; 379/215.01;	Tanaka; Toshiaki et al.

					379/93.07	
1	US 6257782 B1	20010710	Key switch with sliding mechanism and keyboard	400/495.1	200/345; 400/490; 400/495	Maruyama; Junichi et al.
1	US 6246857 B1	20010612	Image forming apparatus	399/301		Tanaka; Toshiaki
1	US 6243442 B1	20010605	Telephone exchange apparatus	379/45	379/50; 379/93.26	Tanaka; Toshiaki et al.
1	US 6233927 B1	20010522	Exhaust gas purification device	60/297	55/DIG.30; 60/288; 60/291; 60/295; 60/301; 60/311	Hirota; Shinya et al.
1	US 6233925 B1	20010522	Exhaust discharge control device for internal combustion engine	60/285	60/286; 60/287; 60/292; 60/297; 60/324	Hirota; Shinya et al.
1	US 6223429 B1	20010501	Method of production of semiconductor device	29/832	174/260; 228/179.1; 228/180.21; 257/E21.514; 29/840; 29/846	Kaneda; Aizou et al.
1	US 6212885 B1	20010410	Exhaust emission control system of internal combustion engine	60/288	60/274; 60/285	Hirota; Shinya et al.
1	US 6209317 B1	20010403	Exhaust gas purifying apparatus for internal combustion engine	60/297	60/278	Hirota; Shinya
1	US 6199374 B1	20010313	Exhaust gas purifying device for engine	60/277	60/285; 60/301	Hirota; Shinya et al.
1	US 6192675 B1	20010227	Exhaust gas purification device for an internal combustion engine	60/286	422/170; 60/288; 60/292	Hirota; Shinya et al.
1	US 6191408 B1	20010220	Photosensor signal processing apparatus	250/208.1	250/214C; 348/241; 348/E3.018	Shinotsuka; Sukeyuki et al.
1	US 6178743	20010130	Device for reactivating catalyst	60/277	60/286; 60/287;	Hirota; Shinya et al.

	B1		of engine		60/288; 60/289; 60/295; 60/303	
1	US 6174891 B1	20010116	Antipruritic agent	514/282	514/281; 514/289; 546/44; 546/74; 546/75	Nagase; Hiroshi et al.
1	US 6119452 A	20000919	Device for purifying exhaust gas of internal combustion engine	60/285	123/443; 60/286; 60/295; 60/297; 60/301	Kinugasa; Yukio et al.
1	US 6101999 A	20000815	Compression ignition type engine	123/295	123/568.21; 60/278	Ohashi; Nobumoto et al.
1	US 6083467 A	20000704	Exhaust gas purifying catalyst and process for producing the same	423/335	423/213.5; 423/239.1; 423/628; 502/349; 502/350; 502/351; 502/352; 502/353; 502/354; 502/355; 502/407; 502/414	Takeshima; Shinichi et al.
1	US 6076164 A	20000613	Authentication method and system using IC card	713/185	713/155; 713/171	Tanaka; Toshiaki et al.
1	US 6058700 A	20000509	Device for purifying exhaust gas of engine	60/285	60/276; 60/287; 60/297; 60/303; 60/324	Yamashita; Tetsuya et al.
1	US 6045371 A	20000404	Connector for electrical connection of circuit boards and such a method for electrical connection of circuit boards using such a connector	439/74		Kagawa; Kiyoshi et al.
1	US	20000229	Catalyst with	60/298	60/300;	Hirota; Shinya

	6029443 A		upstream cooling and downstream heating		60/303	et al.
1	US 6021640 A	20000208	Exhaust gas purification device for an engine	60/300	60/286; 60/303; 60/320	Hirota; Shinya et al.
1	US 6010673 A	20000104	Method for purifying exhaust gas	423/213.5	423/239.1; 423/244.02	Kanazawa; Takaaki et al.
1	US 5996338 A	19991207	Exhaust gas purifying device for engine	60/285	60/300; 60/301	Hirota; Shinya
1	US 5995717 A	19991130	Image forming apparatus	358/1.9	347/116; 347/117; 347/118; 347/119; 347/138; 347/154; 347/234; 358/1.1; 358/1.12; 358/1.4; 358/1.5	Tanaka; Toshiaki
1	US 5974791 A	19991102	Exhaust gas purification device for an internal combustion engine	60/276	60/286; 60/289; 60/301; 60/303	Hirota; Shinya et al.
1	US 5941067 A	19990824	Exhaust gas purification device for an engine	60/286	60/274; 60/277; 60/285; 60/303	Hirota; Shinya et al.
1	US 5934072 A	19990810	Exhaust gas purifying device for engine	60/301	60/278; 60/280; 60/287; 60/291; 60/292	Hirota; Shinya et al.
1	US 5918495 A	19990706	Multistage gear- rolling apparatus	72/108	72/110	Miyamoto; Noritaka et al.
1	US 5911960 A	19990615	Process for purifying exhaust gases	423/213.5	423/213.2; 423/239.1	Miyoshi; Naoto et al.
1	US 5908993 A	19990601	Apparatus for measuring total surface area of a portion of catalytic metal particles	73/865.5	73/38	Takeshima; Shinichi et al.

1	US 5884476 A	19990323	Exhaust gas purifying device for engine	60/278	60/285; 60/286; 60/301	Hirota; Shinya et al.
1	US 5850735 A	19981222	Method for purifying exhaust gas of an internal combustion engine	60/274	60/286; 60/297; 60/301; 60/311	Araki; Yasushi et al.
1	US 5849661 A	19981215	Automotive exhaust catalyst	502/328	502/330; 502/332; 502/333; 502/334; 502/344; 502/348	Yamashita; Tetsuya et al.
1	US 5841177 A	19981124	Multicolor light emitting device	257/431	257/100; 257/81; 257/88; 257/89; 257/95; 257/99; 257/E25.02; 257/E33.059	Komoto; Satoshi et al.
1	US 5839275 A	19981124	Fuel injection control device for a direct injection type engine	60/285	123/300; 60/284	Hirota; Shinya et al.
1	US 5824168 A	19981020	Process for gear-rolling a high accuracy gear	148/573	29/893.32; 72/108	Miyamoto; Noritaka et al.
1	US 5806310 A	19980915	Exhaust purification apparatus	60/286	60/301; 60/303	Daidou; Shigeki et al.
1	US 5782087 A	19980721	Device for purifying exhaust gas of an engine	60/276	60/285; 60/297	Kinugasa; Yukio et al.
1	US 5763901 A	19980609	Semiconductor light-emitting device and method for manufacturing the device	257/99	257/666; 257/787; 257/81; 257/89; 257/E25.028; 257/E33.059; 257/E33.066	Komoto; Satoshi et al.
1	US 5717780 A	19980210	Checking apparatus for flat type display panels	382/141	348/92; 348/E17.004; 348/E17.005; 348/E5.135; 382/148; 382/149;	Mitsumune; Toshifumi et al.

					382/152	
1	US 5715679 A	19980210	Exhaust purification device of an engine	60/276	60/285; 60/297; 60/301	Asanuma; Takamitsu et al.
1	US 5713199 A	19980203	Device for detecting deterioration of NO.sub.x absorbent	60/276	60/277; 60/285; 60/297; 60/301	Takeshima; Shinichi et al.
1	US 5702675 A	19971230	Catalyst for purifying exhaust gases and process for producing the same	423/213.5	423/213.7	Takeshima; Shinichi et al.
1	US 5690756 A	19971125	Method for producing cast iron gear	148/586	148/211; 148/212; 148/230; 148/615	Fujiwara; Yasuyuki et al.
1	US 5668353 A	19970916	Input panel avoiding interference pattern and method of forming the same	178/18.05	345/173; 345/174; 345/175	Matsuda; Genichi et al.
1	US 5628003 A	19970506	Document storage and retrieval system for storing and retrieving document image and full text data	707/104.1	382/181; 382/230; 382/306	Fujisawa; Hiromichi et al.
1	US 5575349 A	19961119	Soundproof type water-cooled engine generator	180/68.1	123/41.7; 180/296; 180/68.4; 180/89.2; 181/204	Ikeda; Takatoshi et al.
1	US 5494824 A	19960227	Apparatus for measuring aldehyde	435/288.7	422/52; 422/81; 422/82.05; 422/82.08; 422/93; 435/287.9; 435/808	Tanaka; Toshiaki et al.
1	US 5473960 A	19951212	Steering rack shaft and method of manufacturing the same	74/422	148/572; 148/573; 219/640; 266/125; 266/129; 74/498	Sakamoto; Hideji et al.
1	US 5473890	19951212	Exhaust purification device of internal	60/285	60/286; 60/297;	Takeshima; Shinichi et al.

	A		combustion engine		60/301; 60/311	
1	US 5473887 A	19951212	Exhaust purification device of internal combustion engine	60/276	60/285; 60/297; 60/301	Takeshima; Shinichi et al.
1	US 5471836 A	19951205	Exhaust purification device of internal combustion engine	60/297	422/169; 423/212; 60/285; 60/286	Takeshima; Shinichi et al.
1	US 5451724 A	19950919	Touch panel for detecting a coordinate of an arbitrary position where pressure is applied	178/18.05	341/34; 345/173; 345/179	Nakazawa; Fumihiko et al.
1	US 5450722 A	19950919	Exhaust purification device of internal combustion engine	60/285		Takeshima; Shinichi et al.
1	US 5437153 A	19950801	Exhaust purification device of internal combustion engine	60/276	60/285; 60/286; 60/297; 60/301	Takeshima; Shinichi et al.
1	US 5433074 A	19950718	Exhaust gas purification device for an engine	60/301	422/169; 423/213.7; 60/285; 60/286; 60/289; 60/297	Seto; Satomi et al.
1	US 5432530 A	19950711	Pointing device and method of control of same	345/159	273/148B	Arita; Takashi et al.
1	US 5406790 A	19950418	Exhaust gas purification device for an engine	60/276	60/277; 60/286; 60/301	Hirota; Shinya et al.
1	US 5404719 A	19950411	Engine exhaust gas purification device	60/276	123/676; 60/277; 60/285; 60/286; 60/289	Araki; Yasushi et al.
1	US 5402641 A	19950404	Exhaust gas purification apparatus for an internal combustion engine	60/285	60/277; 60/297; 60/301	Katoh; Kenji et al.
1	US 5388406 A	19950214	NOx decreasing apparatus for an internal combustion engine	60/297	422/169; 423/212; 60/288; 60/301;	Takeshima; Shinichi et al.

					60/311	
1	US 5365733 A	19941122	Exhaust gas purification system for an internal combustion engine	60/278	422/171; 60/288; 60/301	Takeshima; Shinichi et al.
1	US 5331656 A	19940719	Very short wavelength semiconductor laser	372/45.012	372/46.01	Tanaka; Toshiaki
1	US 5316513 A	19940531	Electrothermal color-varying device and toy utilizing the same	446/14	428/31; 428/913; 446/219; 446/484	Nakagawa; Tanehiro et al.
1	US 5265242 A	19931123	Document retrieval system for displaying document image data with inputted bibliographic items and character string selected from multiple character candidates	707/3	382/231; 382/305; 707/104.1; 715/530	Fujisawa; Hiromichi et al.
1	US 5235653 A	19930810	Document analysis system	382/175	382/209	Nakano; Yasuaki et al.
1	US 5233830 A	19930810	Exhaust gas purification system for an internal combustion engine	60/278	422/171; 60/288; 60/301	Takeshima; Shinichi et al.
1	US 5211010 A	19930518	Exhaust gas purification system for a diesel engine	60/280	60/277; 60/284; 60/285; 60/286; 60/301	Hirota; Shinya
1	US 5205988 A	19930427	Apparatus for measuring gaseous aldehyde	422/91	422/255; 422/82; 422/82.08; 422/88; 435/807; 436/128; 436/130; 436/178; 436/52; 436/53	Tanaka; Toshiaki et al.
1	US 5201802 A	19930413	Exhaust gas purification system for an internal	60/276	60/277; 60/285; 60/287;	Hirota; Shinya et al.

			combustion engine		60/298; 60/300; 60/301	
1	US 5196971 A	19930323	Tape loading mechanism for use in magnetic recording/reproducing apparatus having tape control features for preventing damage to tape	360/85	360/130.23; 360/95	Tsuchiya; Yuzo et al.
1	US 5189876 A	19930302	Exhaust gas purification system for an internal combustion engine	60/286	60/303	Hirota; Shinya et al.
1	US 5186233 A	19930216	Method of producing spheroidal graphite cast iron article	164/58.1	164/55.1	Obata; Fumio et al.
1	US 5157679 A	19921020	Optoelectronic devices	372/43.01	257/E33.003	Kondow; Masahiko et al.
1	US 5149504 A	19920922	Apparatus for assessing gas odor intensity	422/88	422/83; 73/23.31; 73/23.34	Tanaka; Toshiaki
1	US 5141906 A	19920825	Catalyst for purifying exhaust gas	502/62	502/75	Takeshima; Shinichi et al.
1	US 5130761 A	19920714	Led array with reflector and printed circuit board	257/88	257/100; 257/724; 257/787; 257/926; 257/98; 257/99; 257/E25.02; 257/E33.067; 313/500; 313/512; 355/67; 355/70; 362/296; 362/300; 362/301; 362/800	Tanaka; Toshiaki
1	US 5129016 A	19920707	System for registration of documents	382/306	358/403; 382/284	Murakami; Tatsuya et al.

1	US 5106755 A	19920421	Method of assessing gas odor intensity	436/137	436/141; 436/142; 436/163; 436/44; 73/23.31; 73/23.34	Tanaka; Toshiaki
1	US 5100612 A	19920331	Spheroidal graphite cast iron	420/13	420/18	Obata; Fumio et al.
1	US 5065007 A	19911112	Apparatus for measuring light output from semiconductor light emitting element	250/215	324/767	Tanaka; Toshiaki
1	US 4985863 A	19910115	Document storage and retrieval system	707/5	382/229	Fujisawa; Hiromichi et al.
1	US 4970662 A	19901113	X-Y plotter	346/139R		Tanaka; Toshiaki et al.
1	US 4967241 A	19901030	Semiconductor light emitting device	257/85	257/461; 257/96; 257/E33.006; 257/E33.076	Kinoshita; Hideaki et al.
1	US 4961197 A	19901002	Semiconductor laser device	372/45.01	257/21; 257/22; 372/46.01	Tanaka; Toshiaki et al.
1	US 4952767 A	19900828	EDM with an electromagnetic shield of hollow ferrite beads floating on dielectric fluid	219/69.11	174/391; 219/69.14	Uemoto; Kazuhiko et al.
1	US 4945199 A	19900731	Electric discharge machining method and device	219/69.13		Tanaka; Toshiaki et al.
1	US 4933984 A	19900612	Document analysis system	382/175	382/317	Nakano; Yasuaki et al.
1	US 4917068 A	19900417	Unit injector for an engine	123/506	123/500	Takahashi; Takeshi et al.
1	US 4907305 A	19900313	Bubbling bathtub system	4/541.4	137/171; 261/36.1; 261/DIG.75; 4/492; 4/541.3;	Teramachi; Keiichi et al.

					4/541.5; 601/157	
1	US 4907285 A	19900306	Image understanding system	382/176	358/453; 382/180; 382/282	Nakano; Yasuaki et al.
1	US 4906954 A	19900306	Directional coupler device	333/116	330/295	Tanaka; Toshiaki et al.
1	US 4884538 A	19891205	Diesel engine swirl chamber	123/263	123/280	Tanaka; Toshiaki
1	US 4875444 A	19891024	Swirl chamber for diesel engines and the like	123/270	123/271; 123/273	Tsuchida; Hirofumi et al.
1	US 4860220 A	19890822	Apparatus for displaying three- dimensional objects	345/420	345/419; 345/421	Tanaka; Toshiaki et al.
1	US 4832855 A	19890523	Immersion oil for microscopy	252/1	374/4	Tanaka; Toshiaki
1	US 4814667 A	19890321	Light emitting diode array having uniform illuminance distribution	313/500	250/578.1; 257/E25.02; 313/512; 355/67; 355/70; 362/252; 362/800	Tanaka; Toshiaki
1	US 4803316 A	19890207	Push button switch using dome spring and switch element thereof	200/406	200/345; 200/533	Hayashi; Kazutoshi et al.
1	US 4789490 A	19881206	Immersion oil composition having low fluorescence emissions for microscope	252/408.1	252/582; 252/589	Tanaka; Toshiaki
1	US 4785776 A	19881122	Diesel engine having shaped flame dispersing recess in piston crown	123/269	123/262	Tokura; Naomi et al.
1	US 4780879 A	19881025	Semiconductor laser device having little astigmatism	372/46.01	372/108; 372/92	Chinone; Naoki et al.
1	US 4730094 A	19880308	Electric spark machining apparatus	219/69.14	204/224M	Aramaki; Jun et al.

1	US D293420 S	19871229	Watch case	D10/39	D10/30	Tanaka; Toshiaki
1	US D293419 S	19871229	Watch case	D10/39	D10/30	Tanaka; Toshiaki
1	US 4685437 A	19870811	Intake air heater for internal combustion engine with perforated plate heater element partially traversing air passage	123/549	123/556	Tanaka; Toshiaki et al.
1	US 4676209 A	19870630	Transfer passage arrangement for diesel engine having swirl chamber	123/293	123/262; 123/269	Etoh; Yukihiro et al.
1	US 4667644 A	19870526	Intake air heating apparatus	123/549	123/556; 219/206; 219/541	Hori; Makoto et al.
1	US 4662330 A	19870505	Diesel engine having swirl chamber and shaped flame dispersing recess in piston crown	123/269	123/262	Shioyama; Giichi et al.
1	US 4654873 A	19870331	System and method for segmentation and recognition of patterns	382/178	382/209	Fujisawa; Hiromichi et al.
1	US 4635598 A	19870113	Swirl chamber arrangement for diesel engine or the like	123/293	123/261; 123/262; 123/285; 123/286	Tanaka; Toshiaki et al.
1	US 4564341 A	19860114	Fuel injection pump for an internal combustion engine	417/462	123/300; 123/450; 417/221	Tanaka; Toshiaki
1	US 4557230 A	19851210	Swirl chamber for internal combustion engine	123/263	123/286; 123/293	Etoh; Yukihiro et al.
1	US 4541375 A	19850917	Diesel engine swirl chamber having improved multiple transfer passage arrangement	123/261	123/286; 123/293	Tanaka; Toshiaki
1	US 4531491	19850730	Fuel injection rate control system for an	123/357	123/450; 123/494;	Iiyama; Akihiro et al.

	A		internal combustion engine		324/207.2; 324/207.22; 417/462; 73/119A	
1	US 4531488 A	19850730	Fuel injection pump for an internal combustion engine	123/300	123/357; 123/502; 417/462	Kawamura; Yoshihisa et al.
1	US 4530324 A	19850723	Fuel injection pump for an internal combustion engine	123/300	123/450; 123/501; 417/462	Tanaka; Toshiaki et al.
1	US 4529849 A	19850716	Push-button switch and a keyboard comprising the same	200/5A	200/517; 200/535	Kamei; Seisuke et al.
1	US 4498256 A	19850212	Item input device for a data processing system	40/475	40/378; 40/532	Tanaka; Toshiaki et al.
1	US 4475973 A	19841009	Method for production of a fluid separation module	156/184	156/187; 156/192; 210/497.1	Tanaka; Toshiaki et al.
1	US 4436060 A	19840313	Engine cooling system	123/41.1	123/198F; 123/41.44	Tanaka; Toshiaki et al.
1	US 4425885 A	19840117	Diesel engine fuel injection device	123/299	123/446	Tanaka; Toshiaki et al.
1	US 4408973 A	19831011	Injection molding machine	425/139	D15/135	Tanaka; Toshiaki
1	US 4385600 A	19830531	Split type internal combustion engine	123/198F	123/481	Sugasawa; Fukashi et al.
1	US 4366788 A	19830104	Internal combustion engine	123/198F	123/572	Tanaka; Toshiaki et al.
1	US 4348994 A	19820914	Internal combustion engine	123/198F	261/23.2	Tanaka; Toshiaki et al.
1	US 4344393 A	19820817	Internal combustion engine	123/672	123/198F; 123/481	Etoh; Yukihiro et al.
1	US 4337740 A	19820706	Internal combustion engine	123/672	123/198F; 123/481	Sugasawa; Fukashi et al.
1	US 4335687 A	19820622	Internal combustion engine	123/198F	123/179.17; 123/179.3	Sugasawa; Fukashi et al.

1	US 4333428 A	19820608	Internal combustion engine	123/198F		Tanaka; Toshiaki et al.
1	US 4322628 A	19820330	Photo-electric coupling device	250/551	257/724; 257/82; 257/E31.103	Tanaka; Toshiaki
1	US 4320726 A	19820323	Internal combustion engine	123/672	123/198F; 123/568.15; 123/568.27	Etoh; Yukihiro et al.
1	US 4304208 A	19811208	Internal combustion engine	123/681	123/198F; 123/698	Etoh; Yukihiro et al.
1	US 4303053 A	19811201	Split mode internal combustion engine with improved NO.sub.x reduction means	123/568.2	123/198F	Etoh; Yukihiro et al.
1	US 4292938 A	19811006	Internal combustion engine	123/481	123/198F	Tanaka; Toshiaki et al.
1	US 4257372 A	19810324	Internal combustion engine exhaust passage structure	123/198F	60/278; 60/288	Etoh; Yukihiro et al.
1	US 4201165 A	19800506	Internal combustion engine with dual induction system and with EGR system	123/308	123/568.29	Tanaka; Toshiaki et al.
1	US 4153897 A	19790508	Method and device for detecting the similarity between standard and unknown patterns	382/216	382/218	Yasuda; Michio et al.
1	US 3965962 A	19760629	Process for producing ductile iron casting	164/55.1	420/22	Tanaka; Toshiaki et al.
1	US 3925615 A	19751209	Multi-channel sound signal generating and reproducing circuits	381/23		Nakano; Yasuaki
1	US 3846752 A	19741105	CHARACTER RECOGNITION APPARATUS	382/206	382/209; 382/280	Nakano; Yasuaki et al.
1	US 3824410 A	19740716	FREQUENCY TO VOLTAGE CONVERTER WITH MEANS FOR PRESCRIBING	327/102	331/18; 331/25	Funaki; Hidefumi et al.

			PULSE WIDTH AGAINST FLUCTUATIONS			
1	US 3803553 A	19740409	CHARACTER RECOGNITION APPARATUS	382/206	382/224	Nakano; Yasuaki et al.
1	US 3581192 A	19710525	FREQUENCY SPECTRUM ANALYZER WITH DISPLAYABLE COLORED SHIFTABLE FREQUENCY SPECTROGRAM	324/76.31	324/76.15; 324/76.24; 324/76.45; 324/76.46; 324/76.68; 348/462; 704/246	Miura; Tanetoshi et al.
1	US 3532835 A	19701006	SIGNAL RESPONSIVE CONTROL DEVICE FOR DISCONNECTING A REPRODUCER FOR PREDETERMINED TIME PERIODS [TEXT AVAILABLE IN USOCR DATABASE]	360/74.4	369/47.46; 369/53.44	KOSHIKSWA TSUNEJI et al.